

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001158

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ : B01D 21/01, C02F 1/54, 1/56 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI IPC B01D 21/01, C02F 1/54, 1/56 and Keywords; USPTO and Keywords					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
X	WO 2001/005712 A (CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED) 25 January 2001 See whole document	1-2, 7-66			
X	WO 1999/050195 A (CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED) 7 October 1999 See whole document	1-2, 7-66			
X	US 5846433 A (SORENSEN ET AL.) 8 December 1998 See whole document	1-2, 7-66			
X	WO 2002/004360 A (MICROBAR INC.) 17 January 2002 See whole document	1, 7-66			
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex					
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 33%; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> <td style="width: 33%;"></td> </tr> </table>			* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family				
Date of the actual completion of the international search 14 October 2004		Date of mailing of the international search report 19 OCT 2004			
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer JOHN DEUIS Telephone No : (02) 6283 2146			

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6607670 B (BALDWIN ET AL.) 19 August 2003 See whole document	1, 7-66
X	WO 1999/050188 A (CIBA SPECIALTY CHEMICALS WATER TREATMENTS LIMITED) 7 October 1999 See whole document	1, 7-66
X	US 5779910 A (DONLIN) 14 July 1998 See whole document	1, 7-66
X	US 4997573 A (BROWNE) 5 March 1991 See whole document	1, 7-66
X	esp@cenet database Abstract JP56091807 A (FUJI KIKAI SEISAKUSHO:KK) 25 July 1981 See abstract	1, 7-66
X	WO 2001/010530 A (BAKER HUGHES INCORPORATED) 15 February 2001 See whole document	2, 7-66
X	US 5549827 A (BATSON) 27 August 1996 See whole document	2, 7-66
X	US 6171506 B (ALLEN ET AL.) 9 January 2001 See whole document	2, 7-66
X	US 6083404 A (SOMMESE ET AL.) 4 July 2000 See whole document	2, 7-66
X	US 4178243 A (MESSER) 11 December 1979 See whole document	2, 7-66
X	US 4273658 A (KARMAN) 16 June 1981 See whole document	2, 7-66
X	US 4999115 A (PETERSON) 12 March 1991 See whole document	2, 7-66

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001158

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO 0105712		AU 65614/00	BR 0012619	CA 2378718	
		CZ 20020149	EP 1206415	HU 0201895	
		MX PA02000656	NO 20020241	NZ 516631	
		PL 353594	SK 502002	ZA 200200383	
WO 9950195		AU 31604/99			
US 5846433		AU 26777/95	CA 2192388	EP 0764140	
		WO 9533697	ZA 9504744		
WO 0204360		AU 79292/01			
US 6607670		US 2003111422			
WO 9950188		AU 31603/99	CA 2326355	EP 1070021	
		ZA 200005019			
US 5779910		AU 17763/97			
US 4997573		AU 17053/88	AU 22673/88	EP 0355109	
		EP 0377603	NZ 224369	NZ 225853	
		WO 8808408	WO 8901357	ZA 8802849	
		ZA 8806084			
JP 56091807		NONE			
WO 0110530		AU 64950/00	BR 0013092	CA 2378330	
		US 6758978	ZA 200201010		
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		GB 2270853	US 5433862	ZA 9306167	
US 6171506		AU 21741/99	BR 9907742	CA 2317636	
		EP 1049653	PL 341670	WO 9937589	
US 6083404		AU 48457/99	CA 2341895	EP 1115663	
		NO 20011367	NZ 510317	WO 0017112	
US 4178243		AU 19362/76	CA 1067628	DE 2650458	
		GB 1531939	JP 52076770	PL 193578	
		ZA 7606411			
US 4273658		AU 40808/78	CA 1110787		
US 4999115		AU 61531/86	BR 8603940	CN 86105063	

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DK	391986	EP	0213509	ES	2001873
IN	167754	JP	62110711	SU	1540654
ZA	8606028	ZW	16486		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX